

NEW STATE RECORD OF THE ALDERFLY *SIALIS CONCAVA* BANKS FROM THE CRANBERRY GLADES IN WEST VIRGINIA (MEGALOPTERA: SIALIDAE)¹

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ABSTRACT: The alderfly *Sialis concava* Banks is collected for the first time for West Virginia.

DESCRIPTORS: Alderfly, Megaloptera, *Sialis concava*, State Record

Sialis concava Banks is reported for the first time in West Virginia. At 1500 hrs on 12 June 1976, one male was captured while touring the boardwalk in Cranberry Glades. The Glades is an area of approximately 750 acres in mountainous Pocahontas County, at an elevation of 3375 ft, of unique biological interest (Darlington, 1943). It is at the headwaters of Cranberry River, which flows through the bog. Cranberry Glades is a refugium where northern plant and animal life has survived in the Southern Appalachians. This climate is responsible for the success of *S. concava*, normally a northern alderfly.

Prior to this state record, four alderflies have been reported for West Virginia: (1) *S. velata* Ross (Jefferson County) (Ross, 1937), (2) *S. joppa* Ross (Pendleton County) (Tarter, 1973), (3) *S. aequalis* Banks (Wayne County) (Tarter and Woodrum, 1973), and (4) *S. itasca* Ross (Wayne County) (Tarter et al., 1976).

The genus *Sialis* contains 23 Nearctic species (Ross, 1937; Townsend, 1939; and Flint, 1964). Banks (1897) described the holotype male of *S. concava* from Ithaca, New York. The female is unknown. *Sialis concava* has been recorded from Maryland (1♂), New York—Ithaca: 29 May 1913, 1♂, and Ontario—Power Glen: 25 June 1926, 1♂ (Ross, 1937).

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